

Attachment C: Section 106 of the National Historic Preservation Act



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

100 North Senate Avenue
Room N642
Indianapolis, Indiana 46204-2216 (317) 232-5348 FAX: (317) 233-4929

Mitchell E. Daniels, Jr.,
Governor
Karl B. Browning, Commissioner

January 18, 2008

Mr. Robert E. Carter Jr.
State Historic Preservation Officer
Indiana Department of Natural Resources
Division of Historic Preservation and Archaeology
Indiana Government Center South, Rm. W274
Indianapolis IN 46204

RE: Route No.: SR 45
 Des. No.: 9902910
 Federal No.:
 Description: Road Rehabilitation from
 approx. 800 ft. east of Pete Ellis Dr./Range Road Intersection
 to 400 ft. east of Russell Road Intersection

 County: Monroe County, Seymour District
 DHPA #: 3406

Dear Mr. Robert E. Carter Jr.:

Per the *Programmatic Agreement (PA) Among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation and the Indiana State Historic Preservation Officer Regarding the Implementation of the Federal Aid Highway Program in the State of Indiana* (also known as the "Minor Projects PA"), the FHWA has delegated to INDOT the authority to approve the Area of Potential Effect (APE), eligibility determinations, and effect findings for undertakings with determinations of "no historic properties affected" or "no historic properties effected." On January 18, 2008 INDOT, on behalf of FHWA signed a final determination of "no historic properties affected" for this undertaking. In accordance with 36 CFR 800.4(d), INDOT, on behalf of the FHWA, is providing the Indiana State Historic Preservation Officer (IN SHPO) and consulting parties that responded to our Early Coordination Letter dated 12/12/07 with the documentation for this finding, as specified in 36 CFR 800.11(d). No other consulting parties have responded to our Early Coordination Letter. As specified in 36 CFR 800.4(d), consulting parties have 30 days from receipt of this documentation to review and comment on the finding. Failure to respond within 30 days from receipt of the finding shall be considered agreement with the finding. If you have any questions regarding this matter, please feel free to contact Ms. Anuradha Kumar of this section at (317) 234-5168. Thank you in advance for your input.

Sincerely,

Christopher Koeppl, Administrator
Cultural Resources Section
Office of Environmental Services

CDK/AVK/avk
Enclosures

cc: OES project file
emc: David Dye, INDOT Seymour District Environmental Scoping Manager
 Patti Davis, INDOT Seymour District Environmental Scientist

FEDERAL HIGHWAY ADMINISTRATION
DOCUMENTATION OF SECTION 106 FINDING OF
NO HISTORIC PROPERTIES AFFECTED
SUBMITTED TO THE STATE HISTORIC PRESERVATION OFFICER
PURSUANT TO 36 CFR 800.4(d)(1)
SR 45 Road Rehabilitation
approx. 800 ft. east of Pete Ellis Dr./Range Road Intersection
to 400 ft. east of Russell Road Intersection
Bloomington Township, Monroe County
DES. NO. 9902910
FEDERAL PROJECT NO.

1. DESCRIPTION OF UNDERTAKING

Des. #9902910 is located along a stretch of SR 45 in the City of Bloomington, in Bloomington Township of Monroe County within Seymour District. The project limits extend from 800 ft. east of Pete Ellis Drive/Range Road intersection to 400 ft. east of the Russell Road intersection. Within the project limits SR 45 is also known as 10th Street. SR 45 is classified as an Urban Minor Arterial. It is not part of the National Highway System but is included on the National Truck Network and the Federal Aid Transportation System. It lies on Indiana's 3R Non Interstate System. The federal involvement in the project is funding received from the Federal Highway Administration (FHWA).

Within the project limits, the existing cross section of SR 45 consists of two 11' lanes for each direction of traffic, with 2' wide usable gravel shoulders (7' wide shoulders on the east side, between John Hinkle Place and Barrington Drive). In 1997, a segment of SR 45 from 530' south to 160' north of Smith Road was widened to incorporate two 12' through lanes, a 12' eastbound auxiliary right-turn lane to Smith Road, 6' paved shoulders or combined curb and gutter and W-Beam guardrail in select areas.

SR 45, within the project limits, is situated in rolling terrain and has a posted speed limit of 40 mph. All roads intersecting with SR 45 have posted speed limits of 30 mph. Within the project limits, SR 45 traverses west to east between Pete Ellis Drive/Range Road and Smith Road intersections, and then turns north-northeast to its intersection with Russell Road. Land use in the vicinity of the project is primarily residential. Just outside of the project's Area of Potential Effects (APE), is a field that lies in the southwest quadrant of the Pete Ellis Drive/Range Road Intersection and is part of the NRHP listed Hinkle Garton Farmstead (#07000282).

The western portion of the project's APE comprises of multi-unit apartments (Fountain Park, Union Square, Woodbridge, Barrington Place, and Bell Trace), which primarily accommodate Indiana University students and staff. The Bloomington Post Office occupies the southeast quadrant of Pete Ellis Drive/Range Road Intersection, which lies within the project APE. The eastern portion of the project APE comprises of single family homes including the Tamarron Subdivision on the north side and Grandview Estates Subdivision on the south side. The University Elementary School is located in the northwest quadrant of Russell Road intersection and the new building of Mt. Gilead Christian Church lies in the northeast quadrant.

The need for this project is determined by inadequate roadway traffic carrying capacity, particularly for turning vehicles. This, coupled with undesirable roadside characteristics, such as inadequate provision for stopping sight distance and for pedestrians and cyclists, has resulted in the elevated level of crashes along the corridor. The project will increase roadway capacity and reduce conflicts between through and turning vehicles, thereby reducing current and impending congestion while enhancing operational safety for motorists, bicyclists and pedestrians.

The project involves the provision of auxiliary turn lanes and passing blisters at intersections and commercial driveways as warranted. Widened curb lanes with extra 2 ft. width shall be provided in each direction to accommodate bicycle travel. A passing blister shall be maintained at the Barrington Place apartment complex entry. The horizontal alignment of SR 45 shall be brought to current safety standards by increasing the 268 ft. radius to a minimum of at least 570 ft. at Russell Road. Vertical realignment of SR 45 shall be improved to meet the 40 mph design standards beginning about 250 ft. west of the entrance to the Barrington Place Apartments and ending about 300 ft. west of the centerline of Smith Road.

The majority of the project will be constructed in distinct phases while maintaining traffic on existing/new pavement sections. However, the vertical realignment will cause closures of SR 45 and rerouting of traffic. Access blocked from Grandview Drive can be rerouted via Smith Road and East Post Road. As Barrington Apartments has only one access, a local detour to that entrance may have to be provided. Also in order to provide access to homes on the south side of SR 45 a temporary public driveway may have to be provided during staged construction by extending the existing public driveway. For general through traffic an official detour would use SR 46 and SR 135 beginning at the junction of SR 45 and SR 46 and travel 22.5 miles via SR 135. The official detour will add 3.3 miles of travel. A local detour does not appear feasible.

The apparent existing right of way width varies from 35' left and right of the centerline to over 100' from the centerline. Due to vertical realignment and construction of auxiliary lanes, the project will require acquisition of approximately 1.3 acres of additional right-of-way from residential properties and less than 0.1 acres of right-of way from commercial and institutional properties. No relocations are anticipated. A total of 18 parcels will be affected. Right-of way requirements will be minimized by using retaining walls in areas where the vertical alignment needs to be lowered.

The APE has been determined as those areas of proposed right-of-way (R/W) and incidental construction, including immediately adjacent properties (see APE map in Appendix C.) The APE for the project is limited due to the dense urban setting and the built-up environment in the vicinity blocks the view of the roadway from any properties other than those adjacent to the roadway. The approval of the APE, by INDOT acting on FHWA's behalf, is located in Appendix B.

2. EFFORTS TO IDENTIFY HISTORIC PROPERTIES

The State and National Register listings for Monroe County were checked. No listed properties were located in the proposed project APE. The Hinkle-Garton Farmstead (NRHP #07000282), which is listed as Site #105-055-90188 in the *City of Bloomington Interim Report: Indiana Historic Sites & Structures Inventory* (2004), is located just outside the project APE on 2920 E. 10th Street. This property was also included in the IRHSS on 8/20/91 and was subsequently listed in the NRHP on 4/12/07. The property is not included in the APE as it is located west of the Pete Ellis Drive/Range Road Intersection from where the view of the project area is obscured.

The *City of Bloomington Interim Report: Indiana Historic Sites & Structures Inventory* (2004) and the *Monroe County Interim Report: Indiana Historic Sites & Structures Inventory* (1989) were also consulted. It listed only one property, resource #105-639-25046, a c. 1900 pyramidal roofed cottage, which was originally located on the north side of SR 45 at 3911 East 10th Street. This property was rated "Contributing" in the Interim Report and records in the SHPO's office indicated that it was located on the northern side of the roadway. An aerial map from c. 1998, used to draw the proposed plans for Des. No. 9902910, shows the house located adjacent to one multi unit building of the Barrington Place Apartments. This same map indicates that the house was slated for removal as two more multi unit buildings of the apartment complex were to be constructed in its place (see Appendix D). An examination of c. 2003 & c. 2005 aerial maps of the project area and a field visit by INDOT staff in October 2007 confirmed that this property had indeed been demolished and two more buildings of the Barrington Place Apartments had been built at the location (see aerial map with APE in Appendix C).

All other properties located within the APE of the project were individually evaluated to determine whether they were of a minimum age, i.e., at least fifty years, and retained sufficient integrity to be eligible for listing in the National Register of Historic Places. A Historic Property Short Report (Kumar, 12/06/07) was prepared on properties located within the project APE. The conclusions page of the report is located in Appendix F; the entire Historic Property Report is available upon request.

The other structures in the APE include several apartment buildings, a school building, a commercial property, some storage facilities, and the US Post office building, all of which are less than 50 years old. There are also several ranch homes, most of which are less than 50 years old and contemporary single family houses within the project APE. This was determined by the examination of the USGS Topographical Maps of Unionville Quad #639 from 1957, 1966, 1980, 1990 and 1998 respectively. The Historic Property Short Report identified one c. 1850's log house within the project APE that has was not included in the *Monroe County Interim Report - Indiana Historic Sites and Structures Inventory*. However, the report concluded that this property was "Non-Contributing" and therefore ineligible for listing in the National Register for historic Places due to the extensive amount of alterations it has undergone. The building envelope of this house has been modified in the bungalow style and half story addition, new siding, modern windows, a porch addition etc. all impacted its integrity (see photographs in Appendix E).

An Archaeological Records Check and Phase Ia Field Reconnaissance was undertaken and a report was completed for the project area (Greenlee, 07/30/07). This report concluded that the proposed project would not impact any significant cultural resources eligible for inclusion in the IRHSS or NRHP, and so it recommended no further archaeological investigation prior to construction (see Appendix F).

On December 12, 2007, the following parties were invited to be Section 106 consulting parties and to aid in identification of historic properties: State Historic Preservation Officer (SHPO); Historic Landmarks Foundation of Indiana/Western Regional Office; Monroe County Historian; Monroe County Historical Society; Bloomington Historic Preservation Commission; Bloomington Restorations Inc.; Monroe County Planning Department- Historic Preservation Board of Review; Preservation Development Inc.; Bloomington Area Metropolitan Planning Organization; and the Monroe County Commissioners, City of Bloomington(see Appendix A).

The SHPO in a letter dated January 3, 2008, concurred with the findings of the Historic Properties Short Report (Kumar, December 6, 2007) and the Archaeological Report (Greenlee, 07/30/07). Their letter stated that no historic buildings, structures, districts, objects or archaeological resources listed in or eligible for listing in the National Register of Historic Places had been identified within the proposed project area (see letter in Appendix G). No other invited consulting party responded to the December 12, 2007 letter.

3. BASIS FOR FINDING

"No historic properties affected" is appropriate because no historic properties listed in or eligible for listing in the National Register of Historic Places are present within the area of potential effects.

A public notice regarding the approved APE and "No Historic Properties Affected" finding will be issued for this project in a local newspaper in late January, 2007. A 30-day comment period will be given. This document will be revised, if necessary, after the public notice to reflect any comments received.

APPENDICES

- A. List of Consulting Parties**
- B. SECTION 4(f) Compliance Requirements &
Section 106 APE/Eligibility/Effect Finding**
- C. Maps**
- D. Plans**
- E. Photographs**
- F. Historic Properties Report &
Archaeological Records Check and Phase Ia Field Reconnaissance Report
Conclusion Pages**
- G. Correspondence from Consulting Parties**

APPENDIX A
LIST OF CONSULTING PARTIES

Consulting Parties Mailing List for Des. No. 9902910
SR 45 Road Rehabilitation
Bloomington Township, Monroe County, Indiana

Title1	First _Name	Last Name	Title	Company_Name	Address_Line_1	Address_Line_2	Address_L ine_3	City	State	ZIP_Code
Mr.	Robert E.	Carter Jr.	State Historic Preservation Officer	Indiana Department of Natural Resources	Division of Historic Preservation and Archaeology	Indiana Government Center South, Rm. W274		Indianapolis	IN	46204
Mr.	Tommy	Kleckner	Director	Western Regional Office	Historic Landmarks Foundation of Indiana		643 Wabash Avenue	Terra Haute	IN	47807
Mr.	Ron	Baldwin	Monroe County Historian			4792 Conti Street		Bloomington	IN	47404
Ms.	Rachel Peden	McCarty	President	Monroe County Historical Society		202 East Sixth Street		Bloomington	IN	47408
Ms.	Nancy	Hiestand	Program Manager	Bloomington Historic Preservation Commission		P.O. Box 100		Bloomington	IN	47402
Mr.	Steve	Wyatt	Director	Bloomington Restorations Inc.		2920 East 10 th Street		Bloomington	IN	47408
Ms.	Mary	Ogle	Assistant Director	Monroe County Planning Department	Monroe County Historic Preservation Board of Review	Courthouse - Room 306		Bloomington	IN	47404
Mr.	Duncan	Campbell		Preservation Development Inc.		218 N. Rogers Street		Bloomington	IN	47404
Mr.	Tom	Micuda	Planning Director	Bloomington Area Metropolitan Planning Organization		401 N. Morton, Suite 160		Bloomington	IN	47404
			Monroe County Commissioners		Governmental Office Building	Courthouse, Rm. 322		Bloomington	IN	47404
Mr.	Bob	Chestnut	Street Commissioner	City of Bloomington	401 N. Morton St.	P.O.Box 100		Bloomington	IN	47402

APPENDIX B

SECTION 4(f) COMPLIANCE REQUIREMENTS & SECTION 106 APE/ELIGIBILITY/EFFECT FINDING

FEDERAL HIGHWAY ADMINISTRATION'S
SECTION 4(f) COMPLIANCE REQUIREMENTS (for historic properties) AND
SECTION 106 FINDINGS AND DETERMINATIONS
AREA OF POTENTIAL EFFECT
ELIGIBILITY DETERMINATIONS
EFFECT FINDING
SR 45 Road Rehabilitation
approx. 800 ft. east of Pete Ellis Dr./Range Road Intersection
to 400 ft. east of Russell Road Intersection
Bloomington Township, Monroe County
DES. NO. 9902910
FEDERAL PROJECT NO.

AREA OF POTENTIAL EFFECT

(Pursuant to 36 CFR Section 800.4(a)(1))

The area of potential effect (APE) includes those areas of proposed right-of-way (R/W) and incidental construction, including immediately adjacent properties (see APE map in Appendix C.) The project is located in Monroe County on US 45, in the city of Bloomington in Bloomington Township within the Seymour District. The project's APE includes proposed right-of-way and the area immediately surrounding it. Due to vertical realignment and construction of auxiliary lanes, the project will require acquisition of approximately 1.3 acres of additional right-of-way from residential properties and less than 0.1 acres of right-of way from commercial and institutional properties. No relocations are anticipated. A total of 18 parcels will be affected. Right-of way requirements will be minimized by using retaining walls in areas where the vertical alignment needs to be lowered.

ELIGIBILITY DETERMINATIONS

(Pursuant to 36 CFR 800.4(c)(2))

The APE does not contain any sites either listed in or considered eligible for listing in the National Register of Historic Places.

EFFECT FINDING

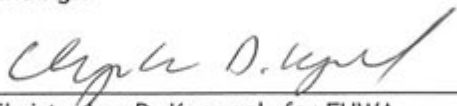
(Pursuant to 36 CFR 800.4(d)(1))

INDOT, acting on FHWA's behalf, has determined a "No Historic Properties Affected" finding is appropriate for this undertaking because no properties listed in or eligible for listing in the National Register of Historic Places are present within the area of potential effects.

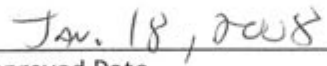
SECTION 4(f) COMPLIANCE REQUIREMENTS (for historic properties)

This undertaking will not convert property from any Section 4(f) historic property to a transportation use; the INDOT, acting on FHWA's behalf, has determined the appropriate Section 106 finding is "No Historic Properties Affected;" therefore, no Section 4(f) evaluation is required. INDOT respectfully requests the Indiana State Historic Preservation Officer provide written concurrence with INDOT's Section 106 determination of "No Historic Properties Affected."

Consulting parties will be provided a copy of the findings and determinations in accordance with INDOT and FHWA's Section 106 procedures. Comments will be accepted for 30 days upon receipt of the findings.



Christopher D. Koeppel, for FHWA
Administrator, INDOT Cultural Resources



Approved Date

APPENDIX C
CURRENT MAPS

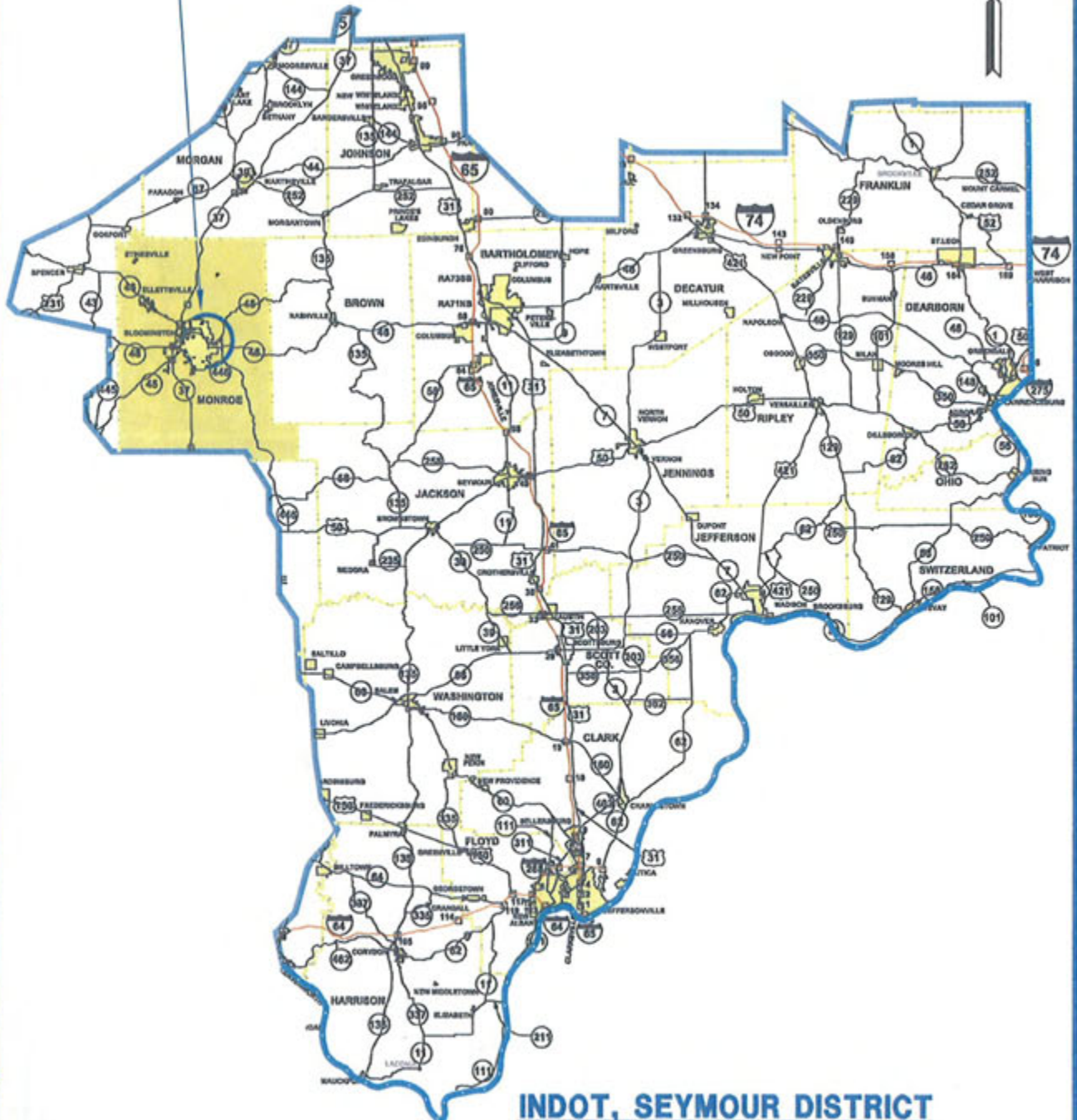


DES. NO., 9902910

SCALE = NTS

Att. p. 48

PROJECT LOCATION



INDOT, SEYMOUR DISTRICT

PROJECT LOCATION - INDOT DISTRICT

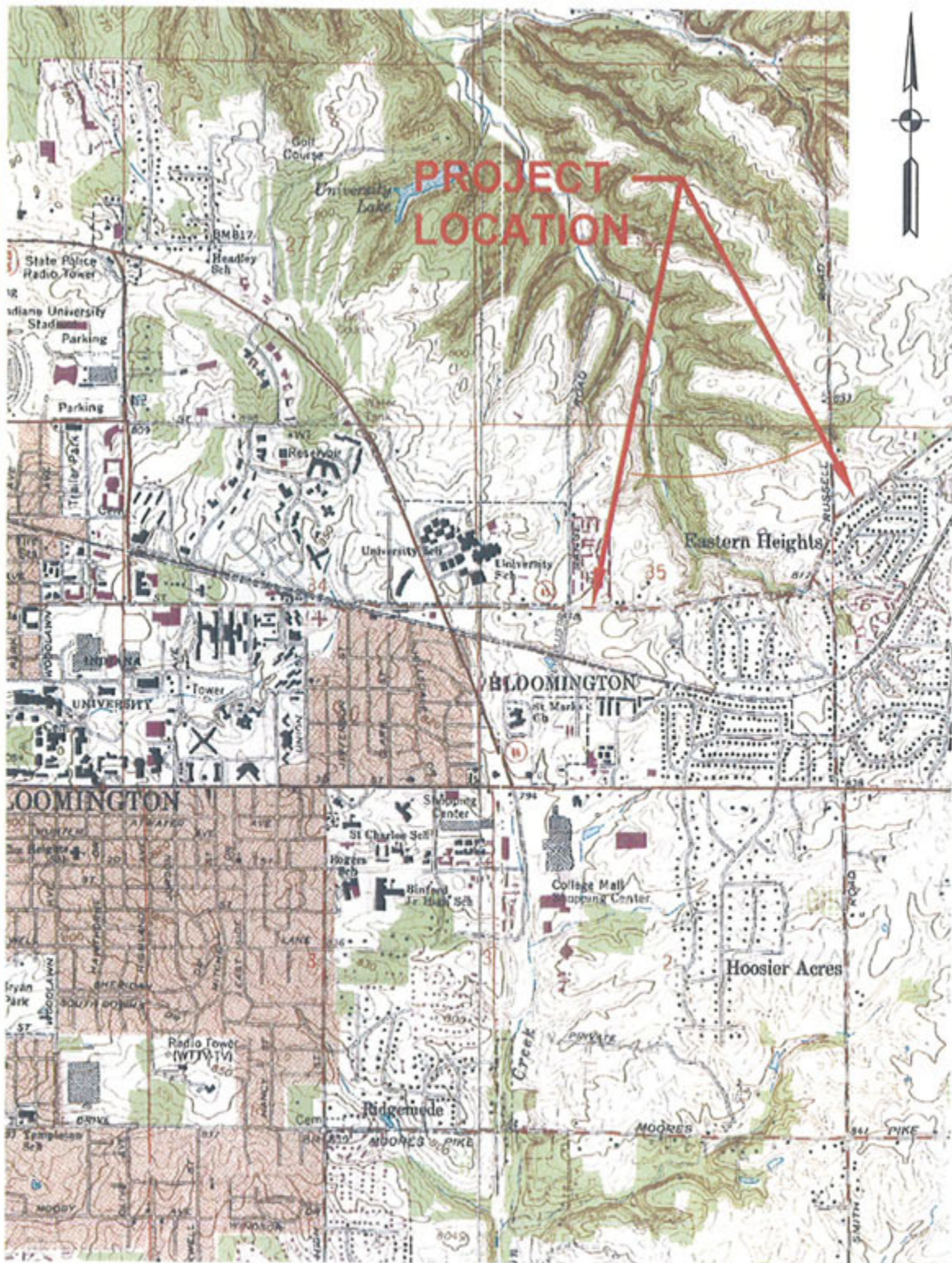
ROAD REHABILITATION

DES. NO. 9902910

**SR 45 FROM PETE ELLIS DR/RANGE RD TO RUSSELL RD
CITY OF BLOOMINGTON, MONROE COUNTY**

SCALE = NTS

C-3



PROJECT LOCATION - USGS TOPO

ROAD REHABILITATION

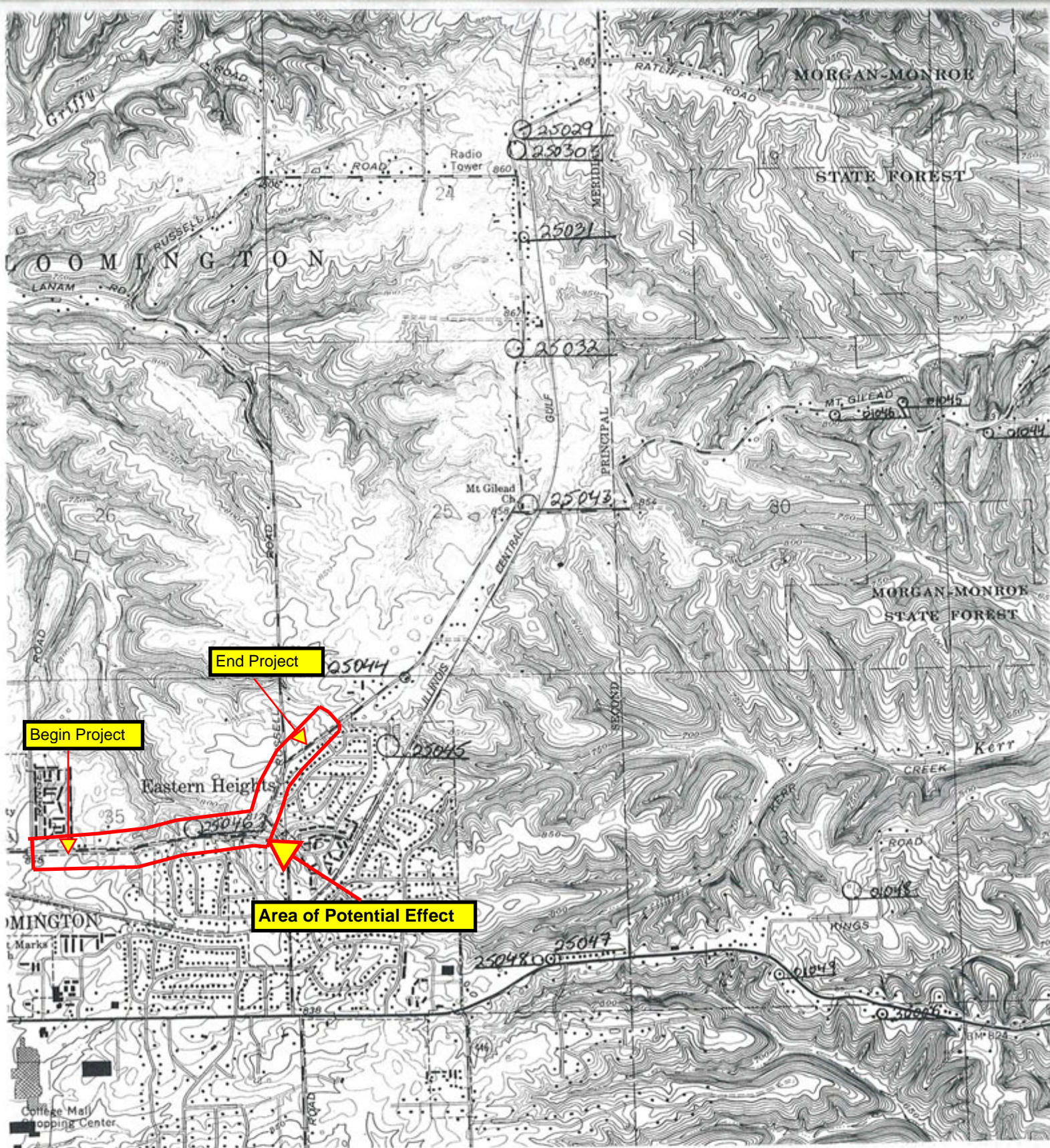
DES. NO. 9902910

**SR 45 FROM PETE ELLIS DR/RANGE RD TO RUSSELL RD
CITY OF BLOOMINGTON, MONROE COUNTY**

SCALE = NTS

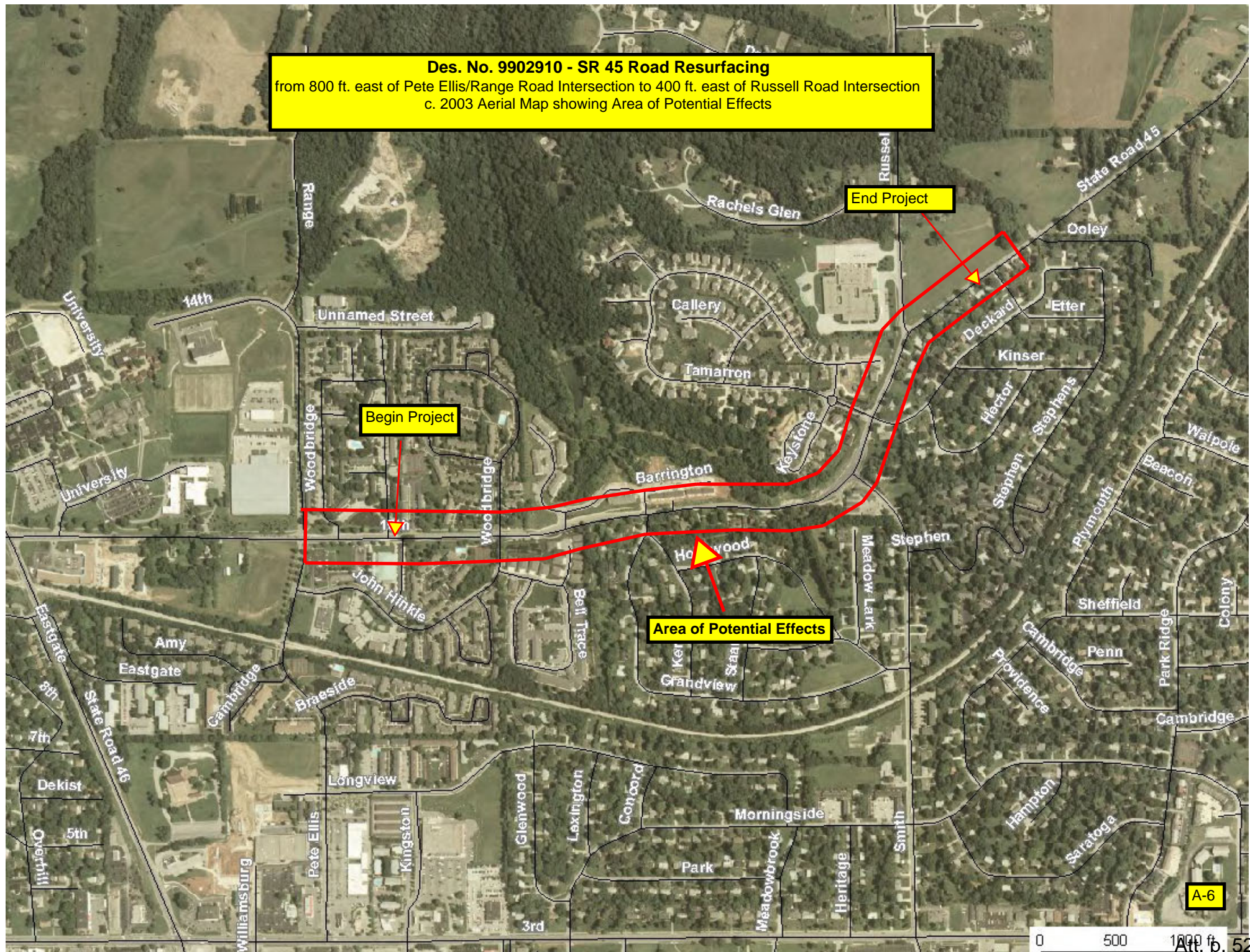
c. 1966 map -photorevised 1980

C-4

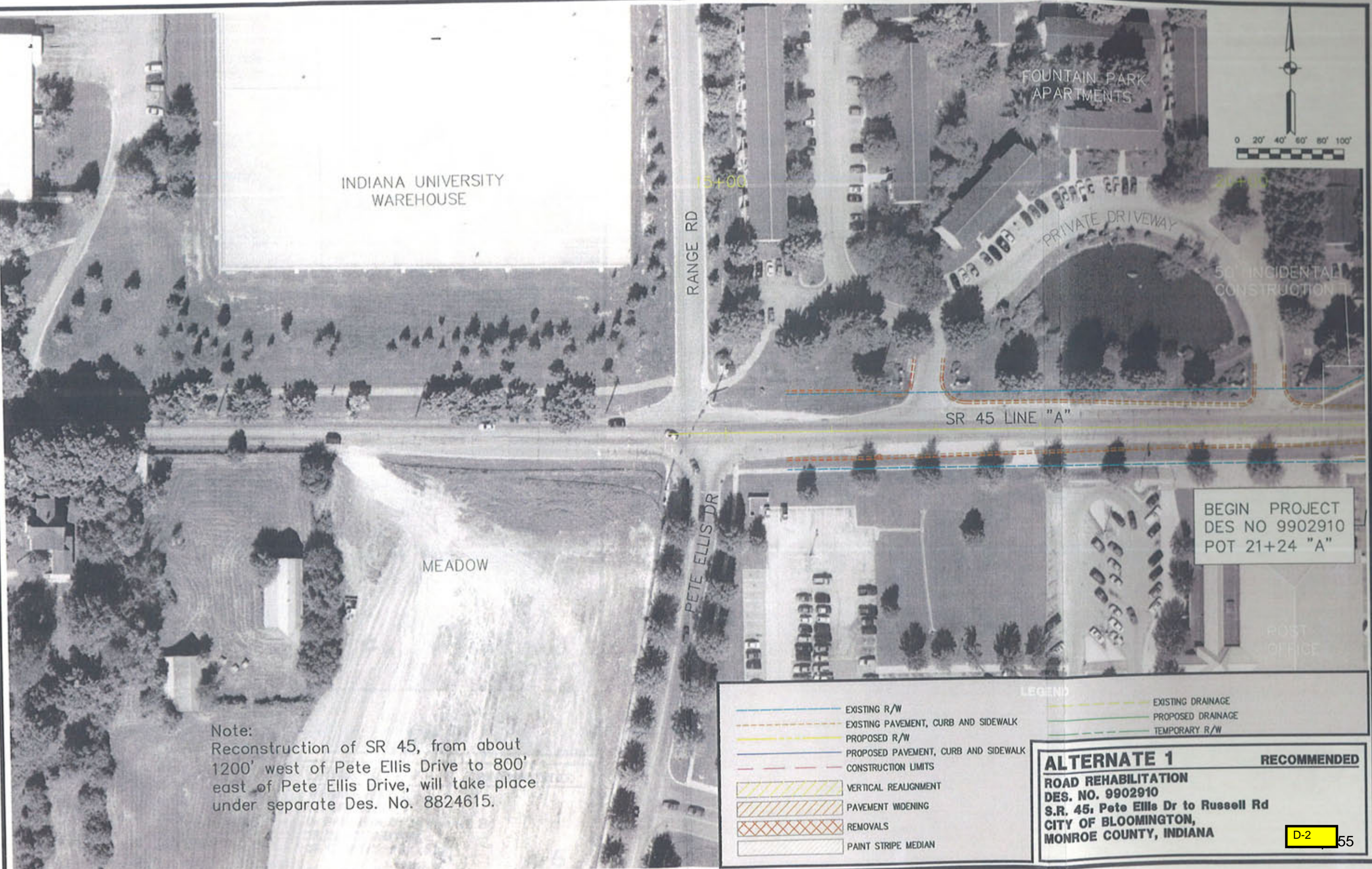


Des. No. 9902910 - SR 45 Road Rehabilitation
 from 800 ft. east of Pete Ellis Dr./Range Road to 400 ft. east Russell Road
 c. 1966 USGS Topographical Map - Unionville Quad # 639
 Photorevised 1980.
 Map Showing Area of Potential Effects

Des. No. 9902910 - SR 45 Road Resurfacing
 from 800 ft. east of Pete Ellis/Range Road Intersection to 400 ft. east of Russell Road Intersection
 c. 2003 Aerial Map showing Area of Potential Effects



APPENDIX D
PROPOSED PLANS



Note:
Reconstruction of SR 45, from about 1200' west of Pete Ellis Drive to 800' east of Pete Ellis Drive, will take place under separate Des. No. 8824615.

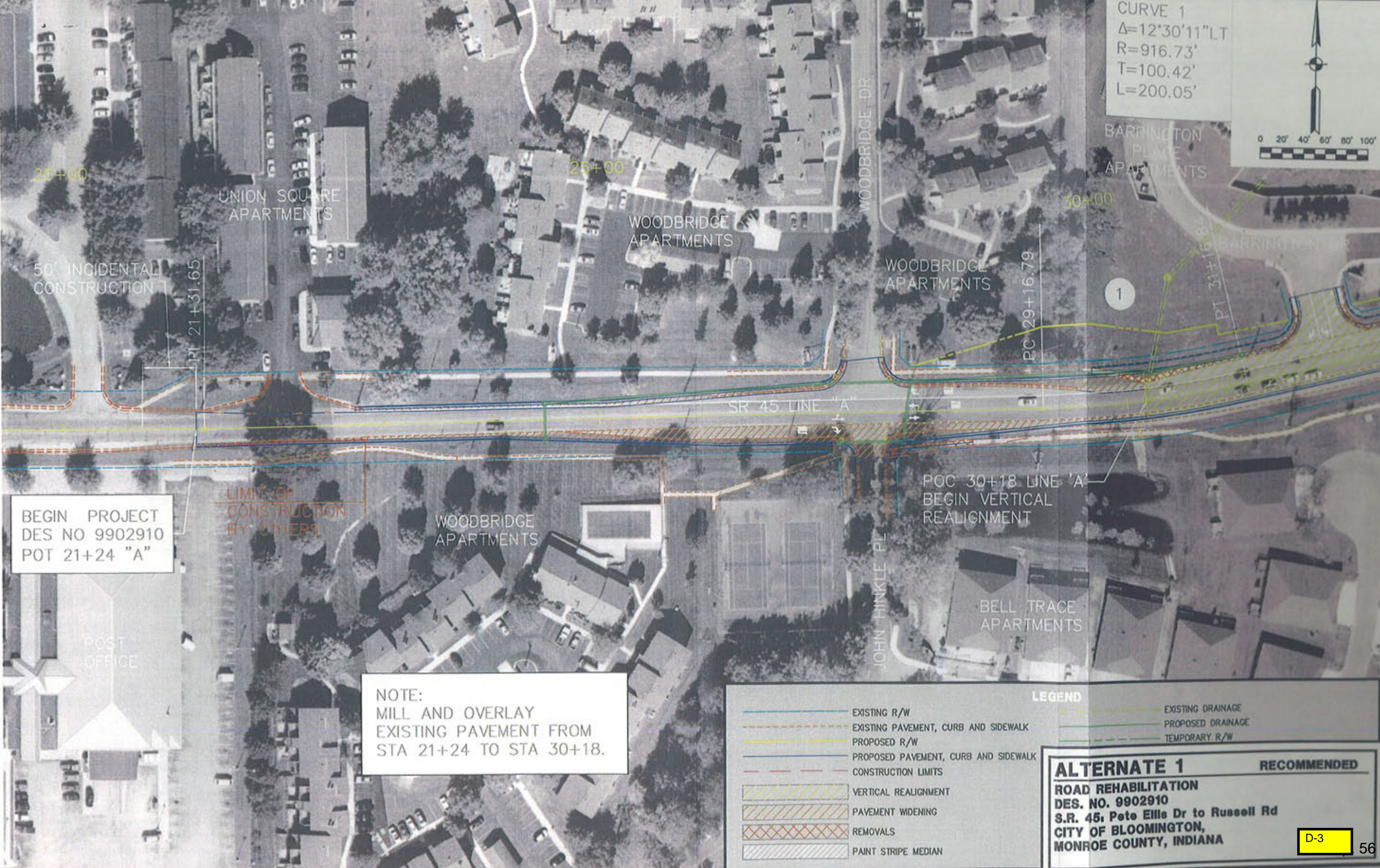
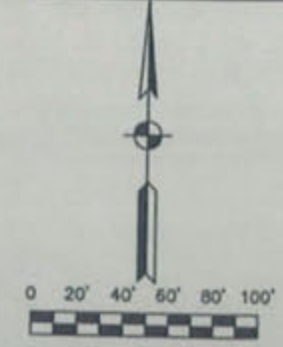
LEGEND

	EXISTING R/W		EXISTING DRAINAGE
	EXISTING PAVEMENT, CURB AND SIDEWALK		PROPOSED DRAINAGE
	PROPOSED R/W		TEMPORARY R/W
	PROPOSED PAVEMENT, CURB AND SIDEWALK		
	CONSTRUCTION LIMITS		
	VERTICAL REALIGNMENT		
	PAVEMENT WIDENING		
	REMOVALS		
	PAINT STRIPE MEDIAN		

ALTERNATE 1 **RECOMMENDED**

ROAD REHABILITATION
DES. NO. 9902910
S.R. 45, Pete Ellis Dr to Russell Rd
CITY OF BLOOMINGTON,
MONROE COUNTY, INDIANA

CURVE 1
 $\Delta=12^{\circ}30'11''$ LT
 R=916.73'
 T=100.42'
 L=200.05'



BEGIN PROJECT
 DES NO 9902910
 POT 21+24 "A"

LIMIT OF
 CONSTRUCTION
 BY OTHERS

NOTE:
 MILL AND OVERLAY
 EXISTING PAVEMENT FROM
 STA 21+24 TO STA 30+18.

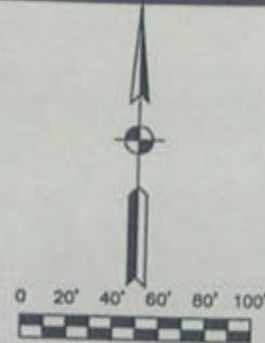
- LEGEND**
- EXISTING R/W
 - - - EXISTING PAVEMENT, CURB AND SIDEWALK
 - PROPOSED R/W
 - - - PROPOSED PAVEMENT, CURB AND SIDEWALK
 - - - CONSTRUCTION LIMITS
 - VERTICAL REALIGNMENT
 - PAVEMENT WIDENING
 - REMOVALS
 - PAINT STRIPE MEDIAN
 - EXISTING DRAINAGE
 - PROPOSED DRAINAGE
 - TEMPORARY R/W

ALTERNATE 1 **RECOMMENDED**
 ROAD REHABILITATION
 DES. NO. 9902910
 S.R. 45, Pete Ellis Dr to Russell Rd
 CITY OF BLOOMINGTON,
 MONROE COUNTY, INDIANA

CURVE 2
 $\Delta=6^{\circ}38'58''$ LT
 R=2864.79'
 T=166.42'
 L=332.48'

CURVE 3
 $\Delta=4^{\circ}28'39''$ RT
 R=2546.49'
 T=99.55'
 L=199.00'

CURVE 4
 $\Delta=10^{\circ}33'49''$ RT
 R=619.41'
 T=57.26'
 L=114.20'



BARRINGTON PLACE
 APARTMENTS

Site #105-639-25046
 c. 1900 Pyramidal Cottage - Now demolished

TYPE K MANHOLE
 WITH OPEN GRATE

323' RETAINING
 WALL

BARRINGTON DR

CL I D/W

CL I D/W

MODIFIED
 TYPE "A"
 PUBLIC RD
 APPROACH

100' RETAINING WALL

CL I D/W

CL I D/W

MODIFIED
 STREET
 APPROACH
 RESIDENTIAL
 (SINGLE UNIT)

PCC 42+30.56

400' RETAINING WALL

RESIDENTIAL
 (SINGLE UNIT)

GRANDVIEW DR

KERR DR

RESIDENTIAL
 (SINGLE UNIT)

LEGEND

- EXISTING R/W
- EXISTING PAVEMENT, CURB AND SIDEWALK
- PROPOSED R/W
- PROPOSED PAVEMENT, CURB AND SIDEWALK
- CONSTRUCTION LIMITS

- EXISTING DRAINAGE
- PROPOSED DRAINAGE
- TEMPORARY R/W

- VERTICAL REALIGNMENT
- PAVEMENT WIDENING
- REMOVALS
- PAINT STRIPE MEDIAN

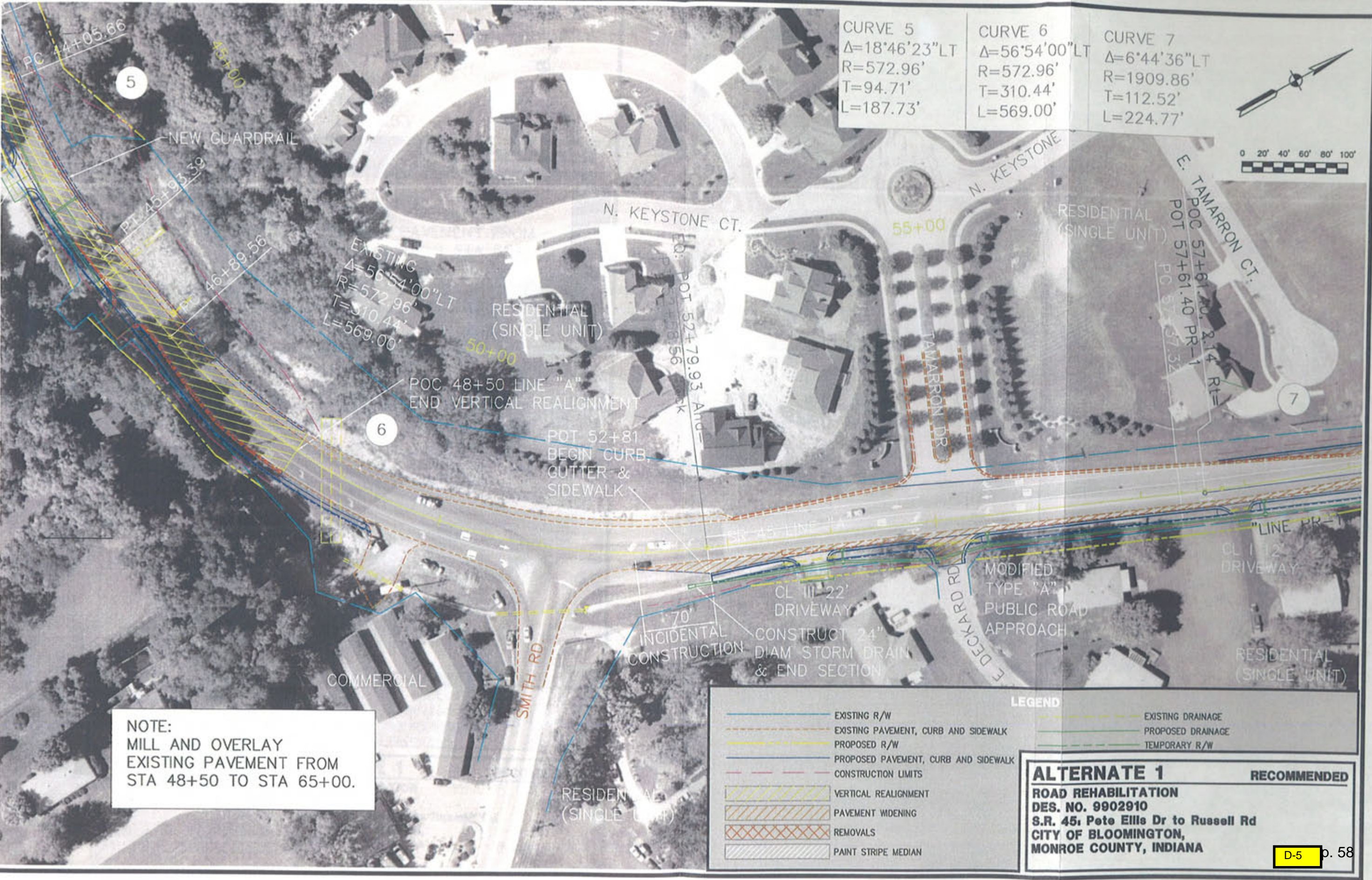
ALTERNATE 1

RECOMMENDED

ROAD REHABILITATION

DES. NO. 9902910

S.R. 45, Pete Ellis Dr to Russell Rd
 CITY OF BLOOMINGTON,
 MONROE COUNTY, INDIANA



NOTE:
MILL AND OVERLAY
EXISTING PAVEMENT FROM
STA 48+50 TO STA 65+00.

LEGEND	
	EXISTING R/W
	EXISTING PAVEMENT, CURB AND SIDEWALK
	PROPOSED R/W
	PROPOSED PAVEMENT, CURB AND SIDEWALK
	CONSTRUCTION LIMITS
	VERTICAL REALIGNMENT
	PAVEMENT WIDENING
	REMOVALS
	PAINT STRIPE MEDIAN

ALTERNATE 1
ROAD REHABILITATION
DES. NO. 9902910
S.R. 45, Pete Ellis Dr to Russell Rd
CITY OF BLOOMINGTON,
MONROE COUNTY, INDIANA

RECOMMENDED

UNIVERSITY ELEMENTARY SCHOOL

POT 12+21 PR-S1
LIMIT OF CONSTRUCTION

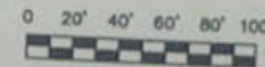
TYPE "A" PUBLIC
ROAD APPROACH

CURVE 8
 $\Delta=36^{\circ}51'19''$ RT
 $R=268.57'$
 $T=89.49'$
 $L=172.76'$

CURVE PR-1
 $\Delta=31^{\circ}19'48''$ RT
 $R=570.89'$
 $T=160.09'$
 $L=312.17'$

CURVE S1-1
 $\Delta=29^{\circ}16'08''$ RT
 $R=150.00'$
 $T=39.17'$
 $L=76.63'$

CURVE
PR-S1-1
 $\Delta=27^{\circ}43'59''$ RT
 $R=280.00'$
 $T=69.12'$
 $L=135.53'$



NOTE:
MILL AND OVERLAY
EXISTING PAVEMENT FROM
STA 48+50 TO STA 65+00.

MT GILEAD CHRISTIAN CHURCH

50'
INCIDENTAL
CONSTRUCTION

END PROJECT
POT 65+00

E. ETTER RD

E. DECKARD DR

RESIDENTIAL
(SINGLE UNIT)

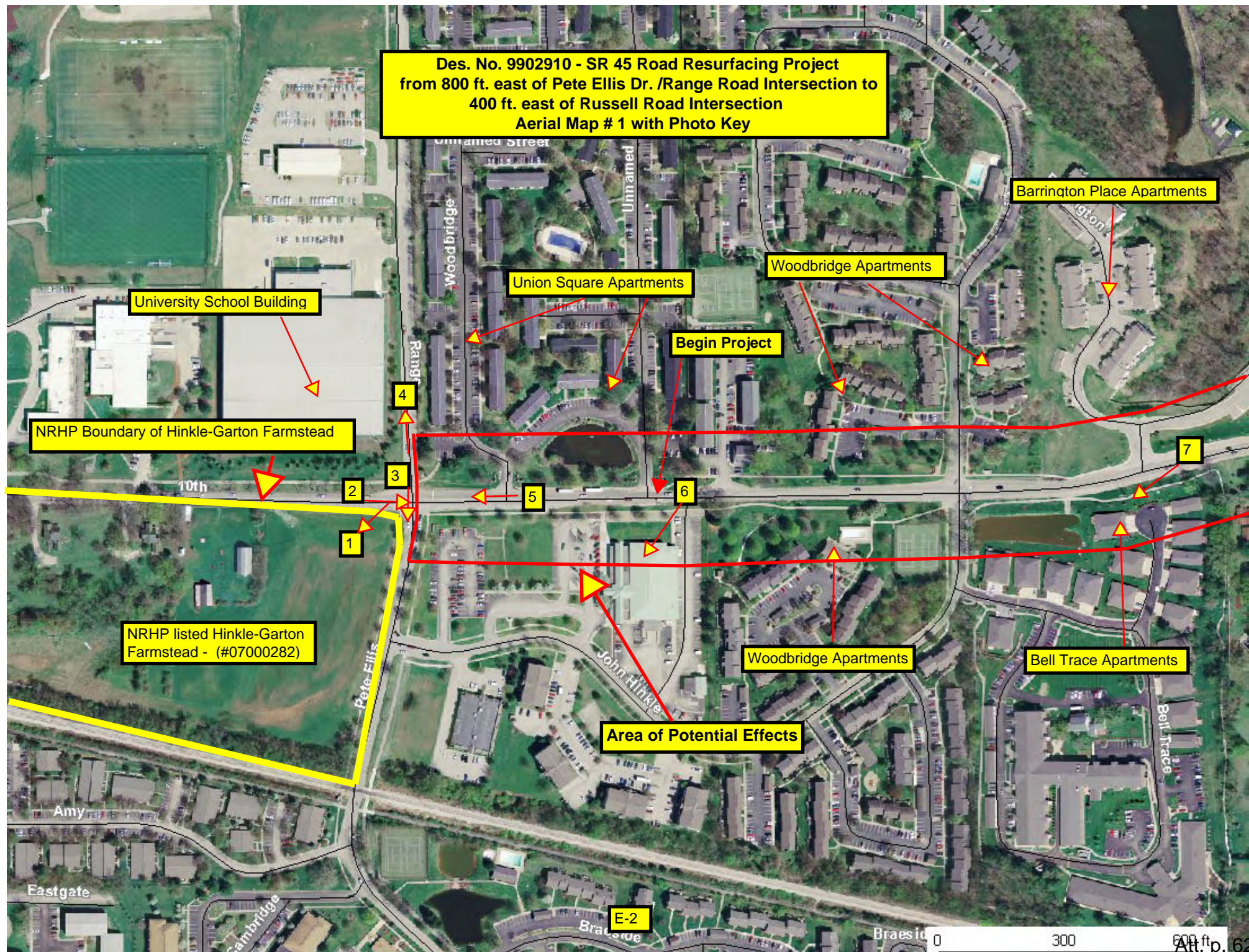
RESIDENTIAL
(SINGLE UNIT)

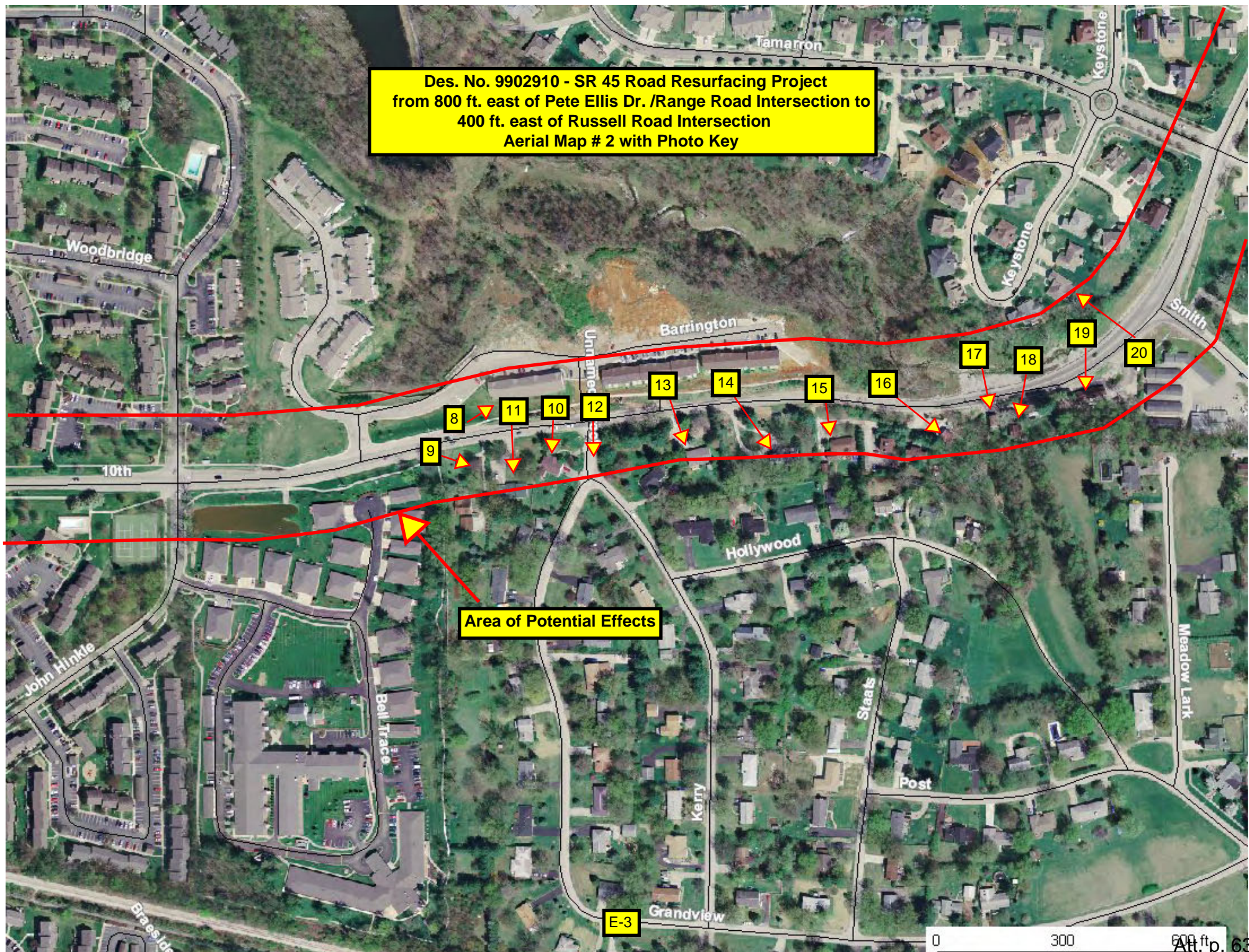
LEGEND	
	EXISTING R/W
	EXISTING PAVEMENT, CURB AND SIDEWALK
	PROPOSED R/W
	PROPOSED PAVEMENT, CURB AND SIDEWALK
	CONSTRUCTION LIMITS
	VERTICAL REALIGNMENT
	PAVEMENT WIDENING
	REMOVALS
	PAINT STRIPE MEDIAN
	EXISTING DRAINAGE
	PROPOSED DRAINAGE
	TEMPORARY R/W

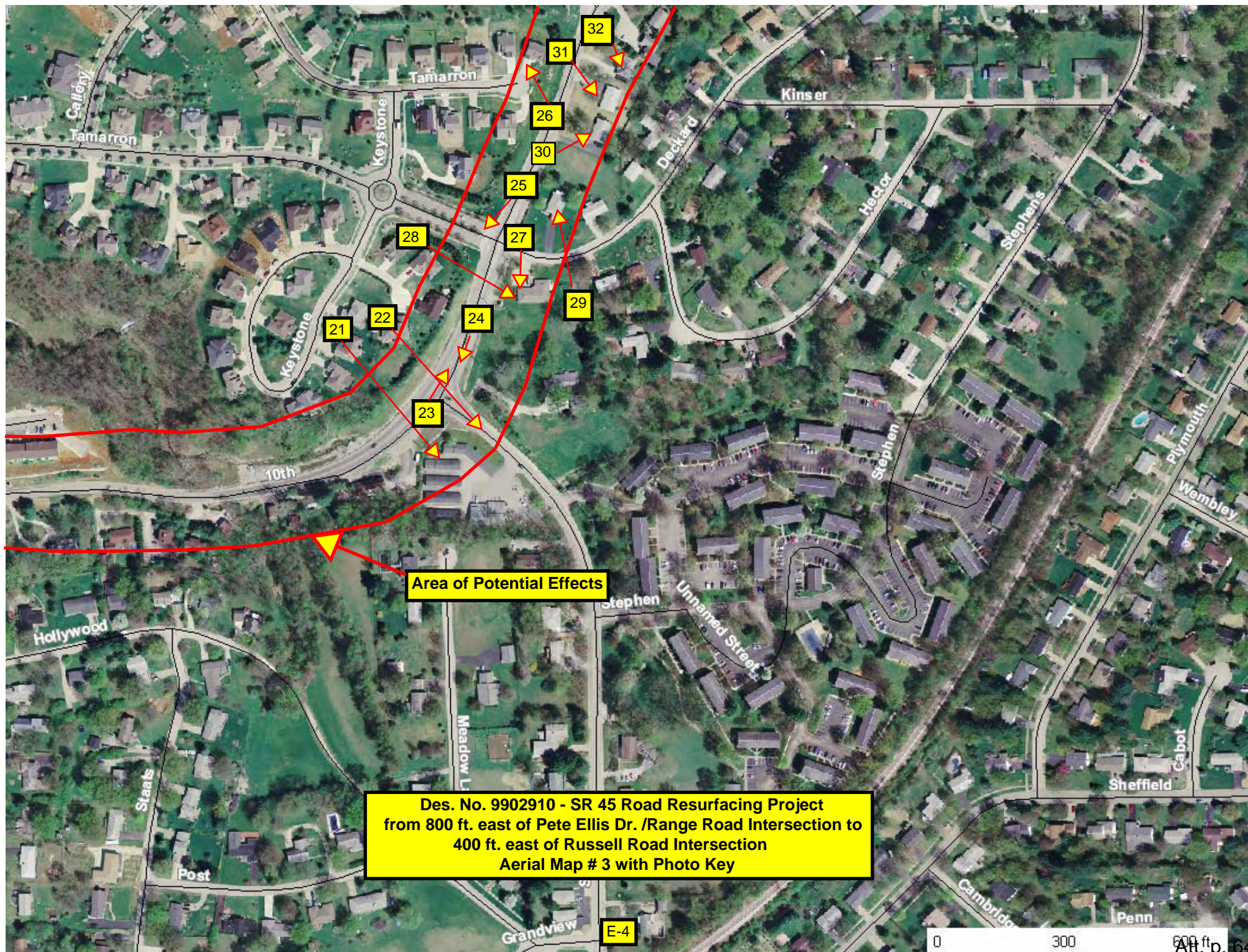
ALTERNATE 1 **RECOMMENDED**

ROAD REHABILITATION
DES. NO. 9902910
S.R. 45, Pete Ellis Dr to Russell Rd
CITY OF BLOOMINGTON,
MONROE COUNTY, INDIANA

APPENDIX E
PHOTOGRAPHS











1. View looking south east from the intersection of SR 45 and Pete Ellis/Range Road



2. View looking east along SR 45 from the Pete Ellis/Range Road intersection



3. View looking south along Pete Ellis Road from SR 45 & Pete Ellis/Range Road intersection



4. View looking north along Range Road from SR 45 & Pete Ellis/Range Road intersection



5. View looking west along SR 45 at the Pete Ellis/Range Road Intersection



6. US Post Office, Woodbridge Station, Bloomington, IN



7. View looking west along SR 45 at Bell Trace Apartments



8. Barrington Place Apartments



9. Single story cottage. Has modern PermaStone walls.



10. Modern single story house.



11. Split Level Ranch House



12. View looking south along Grandview Drive



13. Ranch House



14. A Neocolonial House



15. Modern Single story house



16. Modern Structure (Converted Garage)



17. Modern garage structure



18. A c. 1850's log house completely altered by additions such as new siding, a half floor addition, new siding, all new windows including the dormer window etc.

E-14



19. Modern Commercial Structure



20. View looking up the hill at one of the homes in the Tamarron Subdivision



21. View looking southeast along SR 45 at Smith Road intersection and commercial storage facilities at the location



22. View looking southeast along Smith Road



23. View looking northwest from Smith Road Intersection along SR 45



24. View looking west at Smith Road intersection along SR 45



25. View looking east at Tamarron Street



26. View of homes in Tamarron Subdivision



27. Ranch house located on south side of Deckard Drive



28. View of Ranch house located on south side of Deckard Drive from SR 45



29. View of Ranch house located on north side of Deckard Drive



30. Ranch House with Hipped Roof



31. Single Story Modular House



32. Single Story Ranch House

E-21



33. Modern Single Story House



34. Modern Single Story House

E-22



35. Ranch House



36. Minimal Traditional Single Story House with Hipped Roof



37. Ranch House



38. Ranch House

E-24



39. Ranch House



40. University School Building

E-25

APPENDIX F

HISTORIC PROPERTIES REPORT & ARCHAEOLOGICAL RECORDS CHECK & PHASE Ia FIELD RECONNAISSANCE REPORT CONCLUSION PAGES

Literature Review/Previous Investigations

The NRHP and IRHSS were consulted. None of the listed properties in Monroe County were located within the APE for the proposed projects. The *City of Bloomington Interim Report: Indiana Historic Sites and Structures Inventory* (2004) and the *Monroe County Interim Report: Indiana Historic Sites and Structures Inventory* (1989) were also examined and a records check was conducted at the SHPO office for Bloomington Township. In addition, the United States Geological Survey 7.5 Minute Series topographical maps (Unionville Quad #639) from 1957, 1966, 1980, 1990 and 1998 were all examined.

As already stated only one surveyed property (#105-639-25046) rated as "Contributing" is located within the APE for Des. #9902910 (see APE map in the Appendix). The record for this site, which is listed under "Bloomington Township" of the Interim Report, was reviewed at the DHPA offices. The survey was conducted by the Historic Landmarks Foundation of Indiana in 1988. This site has been listed in the table below using the site numbers and rating that the Historic Landmarks Foundation of Indiana has assigned to it.

Site #	Address	Property Name	Rating	NRHP Eligibility Recommendation
#105-639-25046	SR 45/3911 East 10 th Street	House	Contributing	Not Eligible

Table 1: Historic Properties within project APE listed in the Interim Report.

The Hinkle Garton Farmstead listed as #105-055-90188 in the *City of Bloomington Interim Report: Indiana Historic Sites and Structures Inventory* (2004) was included in the NRHP (#07000282) on April 12, 2007. However, this property is located just outside of the APE east of Pete Ellis Drive/Range Road Intersection and will not be impacted by the project in any way. Due to the urban setting and built-up environment in the vicinity, the project area is not directly visible from this property.

Historic Maps were consulted for general information on the history of Monroe County and Bloomington Township, in which the project is located. They included the following: 1) the 1856 *"Atlas of Monroe County, Indiana"* available on microfiche at the Indiana State Library and 2) the c. 1876 *"Maps of Indiana Counties in 1876 together with the Plat of Indianapolis and Sampling of Illustrations"*. Aerial Maps from 1998, 2003 and 2005 were also examined.

Other resources researched for preparation of this report provided general information on the county history and architectural and building styles of the mid to late twentieth century. The National Register Bulletin 15, *How to Apply the National Register Criteria for Evaluation*, was consulted to evaluate the significance of properties older than 50 years within the APE, and to complete their eligibility determinations according to NRHP guidelines.⁷

Summary and Recommendations

The project historian examined all buildings, structures, sites, objects, or complexes within the project APE that were greater than fifty years of age for Section 106 purposes and prepared a short form of the Historic Properties Report (HPR) for this project. This version of the HPR was utilized due to the fact that at present there are no historic properties located within the area of potential effects (APE) for the proposed project that warrant a rating of "Contributing" in the *Monroe County Interim Report - Indiana Historic Sites and Structures Inventory*. The one property that was listed in the Interim Report does not exist at present as it has been demolished and a modern apartment building has taken its place.

During the Depression and the war, the home-building industry almost came to a standstill, but after 1945, the pent-up demand, coupled with the provisions of the G.I. Bill, led to an explosion of single-

⁷ Patrick W. Andrus, "How to Apply the National Register Criteria for Evaluation", *National Register Bulletin 15*, edited by Rebecca H. Shrimpton (Washington DC.: Interagency Resources Division, National Park Service, US Department of Interior, 1997, revised for the Internet 2002) <http://www.cr.nps.gov/nr/publications/bulletins/nrb15/> (accessed June 2007).

family home construction. The ranch-style house, a uniquely American domestic architectural style, became extremely popular in the late 1950 and 1960's, and was built nationwide in great quantities in suburban communities.⁸ The APE of the project includes many such ranch houses built during the later half of the 20th century.

These ranch houses exhibit several characteristic features of this versatile style, such as wide, ground-hugging profiles, low-pitched cross-gabled, side-gabled or hip roofs, deep eaves, asymmetrical, rectangular, L-shaped, or U-shaped open floor plans, sliding glass doors opening onto patios, large windows, exteriors of stone, brick and wood, and minimal use of exterior and interior decoration. However, most of them were built after 1957 as indicated by the examination of the USGS Topographical Map from that year.

Other structures in the project APE that are less than 50 years old include several apartment complexes, the University Elementary School, the Mt. Gilead Christian Church, the Bloomington US Post Office, two commercial facilities at the intersection of Smith Road, and houses in the Tamarron and Grandview Subdivision.

The APE for the project has only a couple of ranch houses older than 50 years including one example of the split level house, which began to emerge as a popular housing type in the 1950s.⁹ Besides these properties the project APE includes only one c. 1850 log house located on the south side of SR 45 near Smith Road, just past the commercial structures to the west. The owner of the commercial property on the west side of Smith Road also owns this house and allowed the project historian a closer inspection of the property and provided some insight into the approximate age of the house. The house was not surveyed for the Interim Report in 1988. This was possibly because it was considered "Non-Contributing" as its integrity has been completely compromised due to extensive alterations. The modifications to the house are significant and make it ineligible for listing in the National Register for Historic Places.

In conclusion, it can be said the APE for the project, Des. #9902910, contains no structures above ground that are listed in or eligible for listing in the National or State Register of Historic Places. Most of the properties are newer structures that do not meet the 50 year age requisite for eligibility to the National Register of Historic Places. Those that do meet the age criteria lack significance and/or integrity to be eligible for the National Register of Historic Places. As such, no further historical research is recommended.

It is the recommendation of this short-form historic property report that Des. #9902910 will result in "No Historic Properties Affected" due to the fact that no National Register-listed or eligible properties are located within the proposed project's APE.

⁸ Virginia & Lee McAlester, A Field Guide to American Houses. (New York, NY: Alfred A Knopf, 2000), 476-481.

⁹ James C. Massey & Shirley Maxwell, House Styles in America: The Old House Journal Guide to the Architecture of American Homes. (New York, NY: Penguin Studio), 248-251; Virginia & Lee McAlester, A Field Guide to American Houses. (New York, NY: Alfred A Knopf, 2000), 481.

CONCLUSION AND RECOMMENDATIONS

In response to a request from the Indiana Department of Transportation (INDOT), Seymour District, an archaeological records check and field reconnaissance have been conducted for a road rehabilitation on SR 45 from Pete Ellis Drive/Range Road through the city of Bloomington (Des. No. 9902910) in Monroe County, Indiana. Approximately 0.60 ha (1.5 ac) of permanent ROW will be required for this project.

An archaeological records check for this project was conducted by Rachael Greenlee of INDOT, Cultural Resources Section (CRS) at the Indiana Department of Natural Resources, Division of Historic Preservation and Archaeology (IDNR, DHPA). The records check found that six archaeological reconnaissances (Tomak 1979, Myers 1986a and 1986b, Burkett 1990, Kearny 1991, Bamann 1997) have been conducted within 1.6 km (1 mi) of the project area, of which three reconnaissances (Myers 1986a and 1986b, Kearney 1991) located four archaeological sites within 1.6 km (1 mi) of the project area. In addition, eleven other archaeological sites appeared on DHPA topographic maps within 1.6 km (1 mi) of the project area.

An examination of the Monroe County Sites and Structures Inventory (HLFI 1989) listed one historic structure within the project area and three others within 1.6 km (1 mi) of the project area. An examination of the City of Bloomington Sites and Structures Inventory listed fourteen historic structures within 1.6 km (1 mi) of the project area (HLFI 2004). A review of cemetery records on file at DHPA found the Alexander Cemetery, Allen Cemetery, Buskirk/Huff Cemetery, Dearmin/Piercy Cemetery, Headley Cemetery, Rogers Cemetery, and Mt. Gilead Christian Church Cemetery within 1.6 km (1 mi) of the project area. These historic structures and cemeteries will not be impacted by the project.

Rachael Greenlee and Jennifer Wyatt of INDOT, CRS conducted a Phase Ia field reconnaissance for the project on July 26, 2007. The project area was found to consist of residential property, commercial businesses, and a wooded ravine surrounding Indiana Creek. No evidence of cultural resources was identified during the field reconnaissance.

It is the authors' opinion that the proposed project should have no adverse effects on significant cultural resources eligible for inclusion in the IRHSS or NRHP, and so it is recommended that no further archaeological investigation is necessary before construction is allowed to proceed. These recommendations are made with the understanding that if human remains, cultural features, or archaeological deposits are encountered during construction, any further disturbance will cease until the IDNR, DHPA and INDOT, CRS are contacted and mitigation is completed.

APPENDIX G

CORRESPONDENCE FROM CONSULTING PARTIES



Indiana Department of Natural Resources

Division of Historic Preservation & Archaeology • 402 W. Washington Street, W274 • Indianapolis, IN 46204-2739
Phone 317-232-1646 • Fax 317-232-0693 • dhpa@dnr.IN.gov

Mitchell E. Daniels, Jr., Governor
Robert E. Carter, Jr., Director



January 3, 2008

Christopher D. Koepfel
Cultural Resources Section
Office of Environmental Services
Indiana Department of Transportation
100 North Senate Avenue, Room N642
Indianapolis, Indiana 46204-2216

Federal Agency: Federal Highway Administration

Re: Historic Property Report (Kumar, 12/6/07) and a Phase Ia Field Reconnaissance Report (Greenlee, 7/30/07) concerning the rehabilitation of SR 45 from 800' east of the Pete Ellis Drive / Range Road intersection to 400' east of the Russell Road intersection (Designation # 9902910; DHPA # 3406)

Dear Mr. Koepfel:

Pursuant to Section 106 of the National Historic Preservation Act (16 U.S.C. § 470f), 36 C.F.R. Part 800, and the "Programmatic Agreement among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation, the Indiana State Historic Preservation Officer regarding the implementation of the Federal Aid Highway Program in the State of Indiana," the staff of the Indiana State Historic Preservation Officer has conducted an analysis of the materials dated December 12, 2007 and received on December 14, 2007, for the above indicated project in Bloomington, Monroe County, Indiana.

Based upon the documentation available to the staff of the Indiana SHPO, we have not identified any historic buildings, structures, districts, objects, or archaeological resources listed in or eligible for inclusion in the National Register of Historic Places within the proposed project area.

If any archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and 29) requires that the discovery must be reported to the Department of Natural Resources within two (2) business days. In that event, please call (317) 232-1646. Be advised that adherence to Indiana Code 14-21-1-27 and 29 does not obviate the need to adhere to applicable federal statutes and regulations.

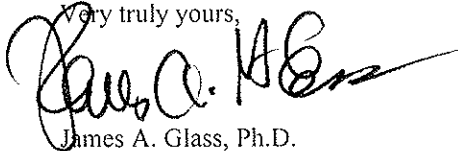
At this time, it would be appropriate for the Indiana Department of Transportation ("INDOT"), on behalf of the FHWA, to analyze the information that has been gathered from the Indiana SHPO, the general public, and any other consulting parties and make the necessary determinations and findings. Please refer to the following comments for guidance:

- 1) If the INDOT believes that a determination of "no historic properties affected" accurately reflects its assessment, then it shall provide documentation of its finding as set forth in 36 C.F.R. § 800.11 to the Indiana SHPO, notify all consulting parties, and make the documentation available for public inspection (36 C.F.R. §§ 800.4[d][1] and 800.2[d][2]).
- 2) If, on the other hand, the INDOT finds that an historic property may be affected, then it shall notify the Indiana SHPO, the public and all consulting parties of its finding and seek views on effects in accordance with 36 C.F.R. §§ 800.4(d)(2) and 800.2(d)(2). Thereafter, the INDOT may proceed to apply the criteria of adverse effect and determine whether the project will result in a "no adverse effect" or an "adverse effect" in accordance with 36 C.F.R. § 800.5.

Christopher D. Koepfel
January 3, 2008
Page 2

A copy of the revised 36 C.F.R. Part 800 that went into effect on August 5, 2004, may be found on the Internet at www.achp.gov for your reference. If you have questions about archaeological issues please contact Amy Johnson at (317) 232-6982 or ajohnson@dnr.IN.gov. If you have questions about buildings or structures please contact Shana Kelso at (317) 232-3491 or skelso@dnr.IN.gov. Additionally, in all future correspondence regarding the above indicated project, please refer to DHPA #3406.

Very truly yours,

A handwritten signature in dark ink, appearing to read "James A. Glass". The signature is fluid and cursive, with a long, sweeping underline.

James A. Glass, Ph.D.
Deputy State Historic Preservation Officer

JAG:ALJ:SNK:snk

enc: Tommy Kleckner, Western Regional Office, Historic Landmarks Foundation of Indiana

PUBLISHER'S CLAIM

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Date: 1/31/2008

Public Notice
Des. No. 8002010
SR 45 Road Rehabilitation
The Indiana Department of Transportation (INDOT) is planning to undertake a road rehabilitation project along SR 45 in the city of Bloomington, in Monroe County, within the Seymour District. The project limits extend from 800 ft. east of Pete Ellis Drive/Range Road Intersection to 400 ft. east of the Russell Road Intersection. Within the project limits SR 45 is also known as 10th Street. The project is funded in part by the Federal Highway Administration.
The project involves the provision of auxiliary turn lanes and passing blisters at intersections and commercial driveways as warranted. Widened curb lanes with extra 2 ft. width shall be provided in each direction to accommodate bicycle travel. A passing blister shall be maintained at the Barrington Place apartment complex entry. The horizontal alignment of SR 45 shall be brought to current safety standards by increasing the 208 ft. radius to a minimum of at least 570 ft. at Russell Road. Vertical realignment of SR 45 shall be improved to meet the 40 mph design standards beginning about 250 ft. west of the entrance to the Barrington Place Apartments and ending about 300 ft. west of the centerline of Smith Road. The majority of the project will be constructed in distinct phases while maintaining traf.

struction by extending the existing public driveway. For general through traffic an official detour would use SR 46 and SR 135 beginning at the junction of SR 45 and SR 46 and travel 22.5 miles via SR 135. The official detour will add 3.3 miles of travel. A local detour does not appear feasible.
The apparent existing right of way width varies from 35' left and right of the centerline to over 100' from the centerline. Due to vertical realignment and construction of auxiliary lanes, the project will require acquisition of approximately 1.3 acres of additional right-of-way from residential properties and less than 0.1 acres of right-of-way from commercial and institutional properties. No relocations are anticipated. A total of 18 parcels will be affected. Right-of-way requirements will be minimized by using retaining walls in areas where the vertical alignment needs to be lowered.
INDOT, acting on PIHWA's behalf, has determined a "No Historic Properties Affected" finding is appropriate for this undertaking because no properties listed in or eligible for listing in the National Register of Historic Places are present within the area of potential effects. In accordance with the National Historic Preservation Act, the views of the public are being sought regarding the effect of the proposed project on the historic elements as per 36 CFR 800.3(d), 800.3(e) and 800.6(a)(4). Pursuant to 36 CFR 800.6(a)(4), the documentation specified in 36 CFR 800.11(d) is available for inspection at the INDOT Office of Environmental Services, Production Management Division in Indianapolis. This documentation serves as the basis for the Federal Highway Administration's "No Historic Properties Affected" finding. The views of the public on this finding are being sought. Please reply no later than 2/29/08.

Christopher Koepfel,
Administrator
Cultural Resources Section
Office of
Environmental Services
100 N. Senate Avenue,
IGCN Room 642
Indianapolis, IN 46204-2218
Phone: (317) 232-5161
Fax: 317 233-4929

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Hope E. Lukens
Title: Class Sales Mgr

PUBLISHER'S AFFIDAVIT

State of Indiana, Monroe County
Personally appeared before me, a notary public in and for said county and state, the undersigned, who, being duly sworn, says that she/he is Public Notice Billing Clerk for Herald-Times newspaper of general circulation printed and published in the English language in the city of Bloomington in state and county aforesaid, and that the printed matter attached hereto is a true copy, which was duly published in said paper for 1 time, the dates of publication being as follows: 01/30/08

Subscribed and sworn to before me on January 31, 2008

Notary Public, Monroe Co. Indiana

My Commission expires

Shirley A. Quinn Notary Public
Residing in Monroe County.
My commission expires 7/23/08.



Indiana Department of Natural Resources

Mitchell E. Daniels, Jr., Governor
Robert E. Carter, Jr., Director



Division of Historic Preservation & Archaeology • 402 W. Washington Street, W274 • Indianapolis, IN 46204-2739
Phone 317-232-1646 • Fax 317-232-0693 • dhpa@dnr.IN.gov

February 7, 2008

Christopher Koepfel
Cultural Resources Section
Office of Environmental Services
Indiana Department of Transportation
100 North Senate Avenue, Room N642
Indianapolis, Indiana 46204

Federal Agency: Federal Highway Administration ("FHWA")

Re: Notification of the INDOT's finding of "no historic properties affected," on behalf of the FHWA, concerning the rehabilitation of SR 45 from 800' east of the Pete Ellis Drive / Range Road intersection to 400' east of the Russell Road intersection (Designation #9902910; DHPA #3406)

Dear Mr. Koepfel:

Pursuant to Section 106 of the National Historic Preservation Act (16 U.S.C. § 470f), 36 C.F.R. Part 800, and the "Programmatic Agreement among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation, the Indiana State Historic Preservation Officer regarding the implementation of the Federal Aid Highway Program in the State of Indiana," the staff of the Indiana State Historic Preservation Officer has conducted an analysis of the materials dated January 18, 2008 and received on January 23, 2008, for the above indicated project in Bloomington Township, Monroe County, Indiana.

As previously indicated, we have not identified any historic buildings, structures, districts, objects, or archaeological resources listed in or eligible for inclusion in the National Register of Historic Places within the probable area of potential effects.

Therefore, we concur with the INDOT's January 18, 2008 finding, on behalf of the FHWA, that there are no historic buildings, structures, districts, objects, or archaeological resources within the area of potential effects that will be affected by the above indicated project.

If any archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and 29) requires that the discovery must be reported to the Department of Natural Resources within two (2) business days. In that event, please call (317) 232-1646. Be advised that adherence to Indiana Code 14-21-1-27 and 29 does not obviate the need to adhere to applicable federal statutes and regulations.

If you have questions about archaeological issues please contact Amy L. Johnson at (317) 232-6982 or ajohnson@dnr.IN.gov. If you have questions about buildings or structures please contact Shana Kelso at (317) 232-3491 or skelso@dnr.IN.gov.

Very truly yours,

James A. Glass, Ph.D.
Deputy State Historic Preservation Officer

AG:ALJ:SNK:snk

**Ecological Assessment and Wetland Determination
SR 45 – Added Travel Lanes
Bloomington, Indiana
Designation Number 9902910**

Prepared by David Glista, Environmental Scientist
January 14, 2008

INTRODUCTION

An ecological assessment was conducted by the Ecology Unit of the Office of Environmental Services (OES) of INDOT on October 1, 2007. The assessment was for the immediate area surrounding the proposed additional travel lanes for SR 45 from 0.36mi to 1.34mi east of SR 46 in Bloomington, Indiana.

ECOLOGICAL ASSESSMENT

The project area is located in the Highland Rim Natural Region, Brown County Hills Section, as described in Homoya *et al.* (1985). The region is unglaciated, except for relatively unmodified glaciated areas at the northern and eastern boundary. This region is characterized by the large expanse of karst topography, although several other major topographic features are known including cliffs and rugged hills.

This natural region is divided into three sections: the Mitchell Karst Plain Section, the Brown County Hills Section, and the Knobstone Escarpment Section. The current project is located within the Brown County Hills Section. This section is characterized by deeply dissected uplands, well-drained acid silt loams, and bedrock near the surface. The natural community types are uniform in composition, with uplands dominated by oak-hickory and ravines with mesic species, e.g. American beech (*Fagus grandifolia*), red oak (*Quercus rubra*), sugar maple (*Acer saccharum*), and white ash (*Fraxinus americana*). Upper slopes typically have nearly pure stands of chestnut oak (*Q. prinus*), thick areas of greenbrier (*Smilax* spp.), and low growing shrubs.

The dominant plant species encountered were tall fescue (*Festuca arundinacea*) and Kentucky bluegrass (*Poa pratensis*) which was planted along the grassy ditches and walkways. Other plants that were observed include sugar maple and silver maple (*Acer saccharinum*). The project is within the range of the federally endangered Indiana bat (*Myotis sodalis*) but there were no indications of the presence of individuals or their critical habitat.

The project area is primarily in suburban development (photos 1 and 2). There are two areas at the west end of the project, one on the north side of SR 45 near the intersection of SR 45 and N. Range Rd. (photo 3) and one on the south side at the intersection of SR 45 and John Hinkle Pl. (photo 4) that are classified as palustrine, unconsolidated bottom, intermittently exposed, diked/impounded according to the National Wetland Inventory (NWI). During the site visit, these areas were discovered to

be retention ponds, rather than wetlands, associated with apartment complexes. There were no wetlands found within the project area. Moreover, no karst features were observed during the survey.

There are two drainages under SR 45 towards the east end of the project area. "Stream 1" (photo 5), a tributary to Griffy Creek, is shown as an intermittent blue-line stream on the USGS topographic map and eventually empties into Griffy Reservoir to the north. "Unnamed Tributary (UNT) 1" (photo 6), does not show on the topographic map but is listed as a historic drainage in the NRCS Soil Survey for Monroe County which empties into Stream 1. Both are located just west of the intersection of SR 45 and N. Smith Rd.

CONCLUSIONS

The SR 45 project area is located in a predominantly suburban landscape. Based on the field observations, there are no wetlands located within the proposed right-of-way for the project. There are, however, two drainages that pass under SR 45 that will require jurisdictional determination by the US Army Corps of Engineers (USACE). These will be addressed in a subsequent *Waters of the US* report to USACE.



Photo 1: Intersection of SR 45 and John Hinkle Pl., facing east.



Photo 2: SR 45 at project terminus (Russell Rd.), facing west.



Photo 3: Retention pond at west end of project near intersection of SR 45 and N. Range Rd. (view from apartment complex entrance, facing northwest).



Photo 4: Retention pond at west end of project near intersection of SR 45 and John Hinkle Pl. (view from road, facing east).



Photo 5: "Stream 1" under SR 45, west of intersection of SR 45 and Smith Rd. (view from top of culvert, facing northwest).



Photo 6: "UNT 1" under SR 45, west of Stream 1 (view from culvert, facing south).



Photo 1: Intersection of SR 45 and John Hinkle Pl., facing east.



Photo 2: SR 45 at project terminus (Russell Rd.), facing west.



Photo 3: Retention pond at west end of project near intersection of SR 45 and N. Range Rd. (view from apartment complex entrance, facing northwest).



Photo 4: Retention pond at west end of project near intersection of SR 45 and John Hinkle Pl. (view from road, facing east).

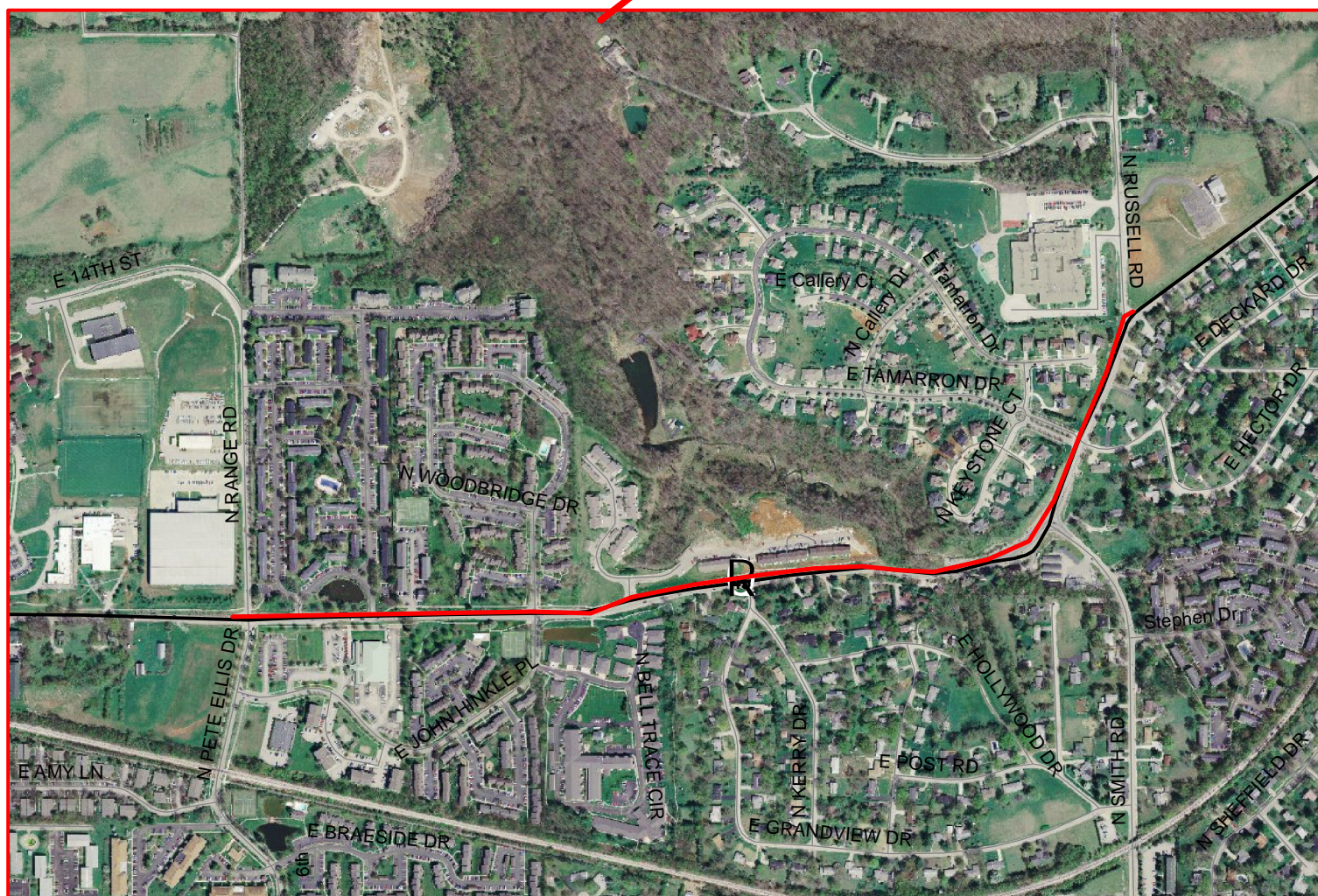
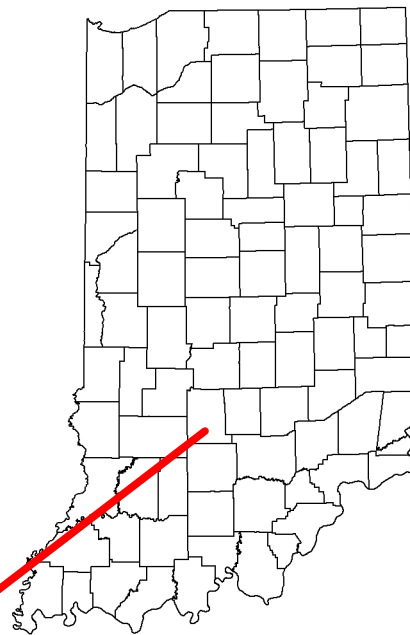


Photo 5: "Stream 1" under SR 45, west of intersection of SR 45 and Smith Rd. (view from top of culvert, facing northwest).



Photo 6: "UNT 1" under SR 45, west of Stream 1 (view from culvert, facing south).

Site Location
SR 45, Monroe County, Indiana
Des. 9902910, Added Travel Lanes



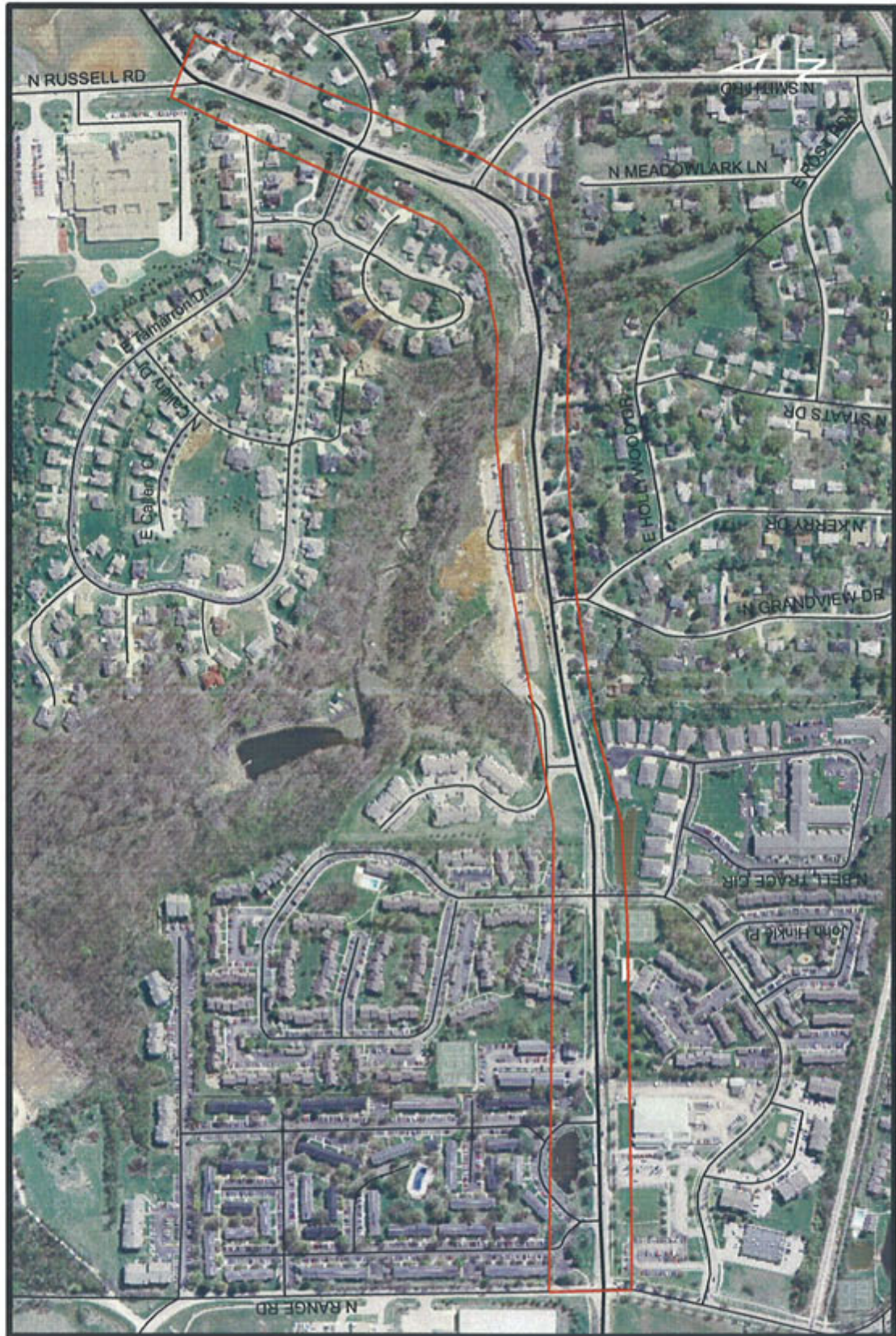
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Aerial Photograph 2005
Town 9N, Range 1W, Section 35
Source: Indiana Orthophotography (IndianaMap
Framework Data www.indianamap.org)

Site Location - Aerial

SR 45, Monroe County, Indiana

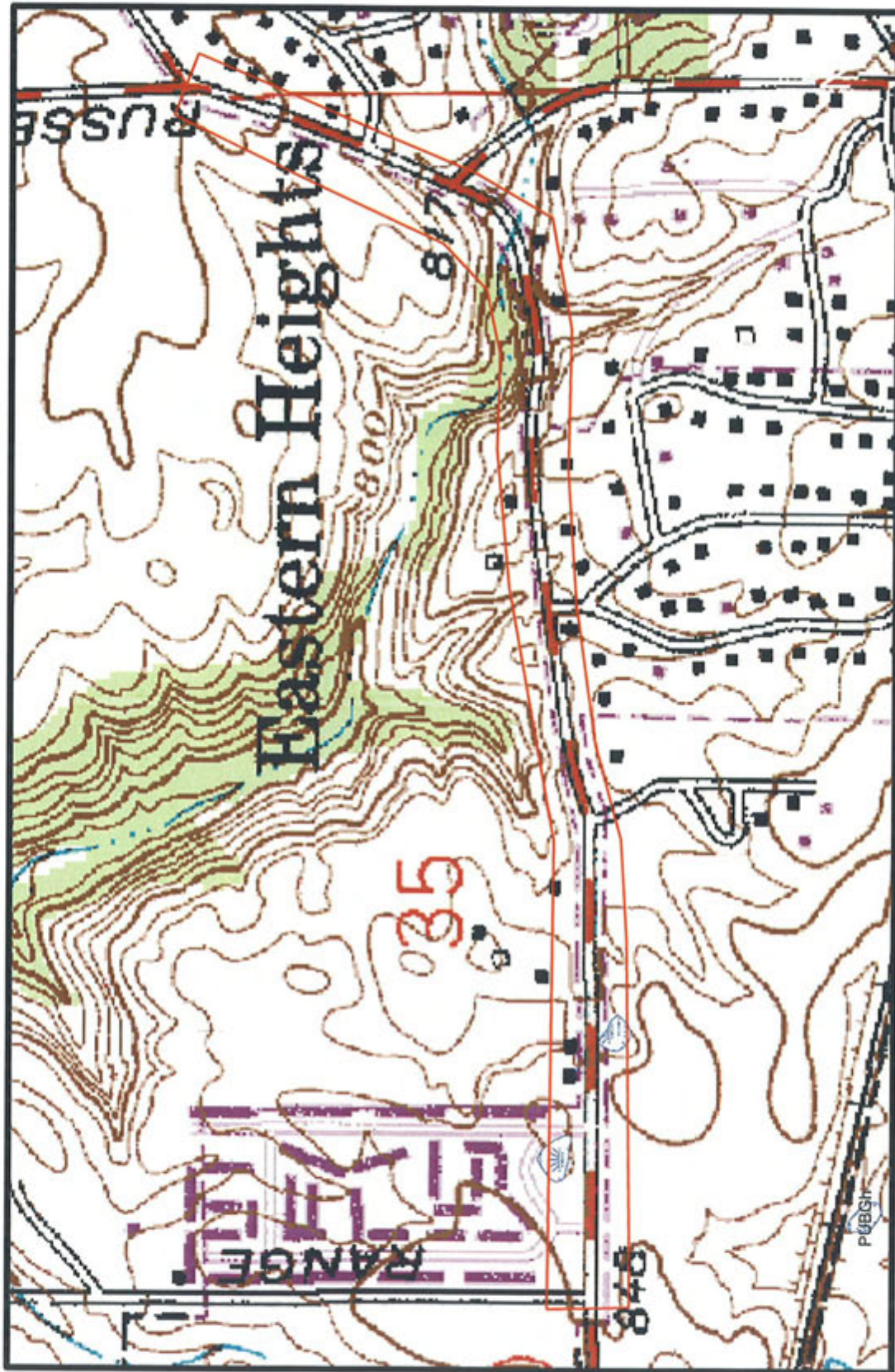
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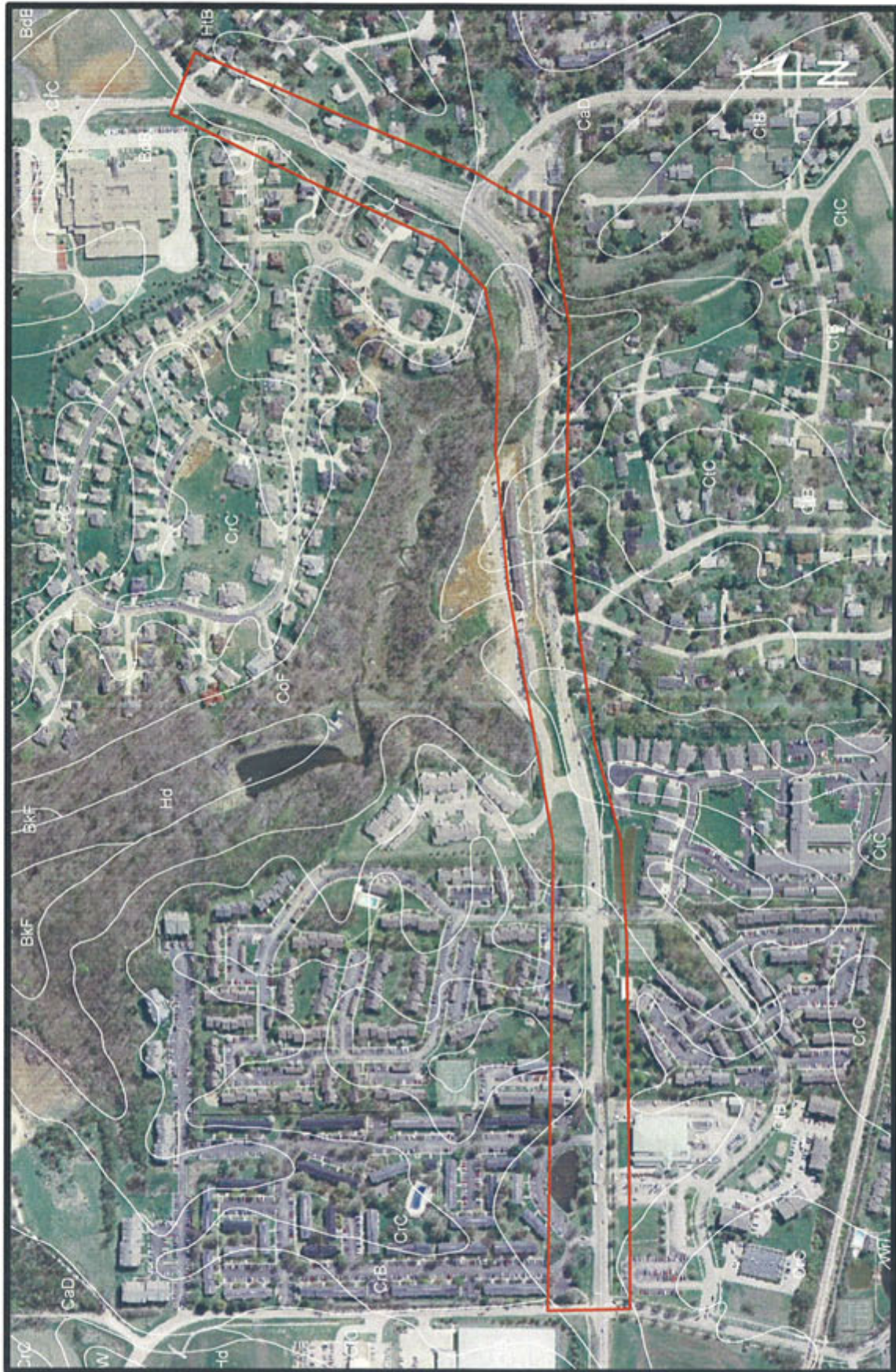
Aerial Photograph 2005
Town 9N, Range 1W, Section 35
Source: 2005 Indiana Orthophotography (IndianaMap
Framework Data www.indianamap.org)

Site Location - Topo/NWI
SR 45, Monroe County, Indiana
Des. 9902910; Added Travel Lanes



Unionville, Indiana Quadrangle 1966
Town 9N, Range 1W, Section 35
Source: U.S.G.S. 7.5 Minute Series Topographic Map
Source: US Fish and Wildlife Service, National Wetland Inventory

Site Location - Soils SR 45, Monroe County, Indiana Des. 9902910; Added Travel Lanes



Aerial Photograph 2005
Town 9N, Range 1W, Section 35
Source: U.S. Department of Agriculture, Natural Resources
Conservation Service, Soil Survey Geographic (SSURGO)